#### Medical Dosage Calculations 10th Edition Olsen Test Bank

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# Olsen, Giangrasso, Shrimpton, *Medical Dosage Calculations* 10<sup>th</sup> Edition Chapter 1

**Question 1 Type:** MCSA

# Changing between improper and mixed fractions

Write the following as a mixed number: 17/4.

**1.** 4 1/4

**2.** 4

**3.** 64

**4.** 20

**Correct Answer:** 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Divide the numerator by the denominator or  $17 \div 4 = 4$  with 1 left over so the answer is 4 with the 1 remainder over 4 or  $\frac{1}{4}$ 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing between improper and mixed fractions

**Question 2 Type:** MCSA

Write the following as a mixed number: 36/7.

**1.** 4 6/7

**2.** 5 1/7

**3.** 4 1/7

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**4.** 5

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Divide the numerator by the denominator:  $36 \div 7 = 5$  with a remainder of 1 or 5 1/7

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing between improper and mixed fractions

**Question 3 Type:** MCSA

Write the following as a mixed number: 7/2.

**1.** 4 1/2

**2.** 5 1/2

**3.** 3 1/2

**4.** 3

**Correct Answer:** 3

Rationale 1:

Rationale 2:

**Rationale 3**:

Rationale 4:

**Global Rationale:** Divide the numerator by the denominator:  $7 \div 2= 3$  with 1 remaining or  $3 \frac{1}{2}$ 

Cognitive Level: Client Need: Client Need Sub:

## Nursing/Integrated Concepts:

Learning Outcome: Changing between improper and mixed fractions

#### **Question 4**

Type: MCSA

Write the following number as an improper fraction: 8 5/6.

**1.** 53/6

**2.** 40/6

**3.** 53/8

**4.** 45/6

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Multiply the whole number by the denominator, and add the numerator. 8X6 = 48+5= 53. Place this number over the denominator or 53/6

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing between improper and mixed fractions

**Question 5 Type:** MCSA

Write the following number as an improper fraction: 5 5/6.

**1.** 35/6

2.30/6

**3.** 25/6

**4.** 41/6

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Multiply the whole number by the denominator and add the numerator:  $5 \times 6 = 30 + 5 = 35$ . Place this number over the denominator: 35/6

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing between improper and mixed fractions

**Question 6 Type:** MCSA

Write the following number as an improper fraction: 8 1/3.

**1.** 11/3

**2.** 24/3

**3.** 8/3

**4.** 25/3

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Multiply the whole number by the denominator and add the numerator: 8X3=24 + 1 = 25 Place this number over the denominator: 25/3

Cognitive Level: Client Need: Client Need Sub:

## Nursing/Integrated Concepts: Learning Outcome: Changing between improper and mixed fractions

# Changing decimal numbers to fraction and percents

**Question 7 Type:** MCSA

Write 0.125 as a fraction in lowest terms and as a percentage.

**1.** 125/100; 1.25%

2. 25/100; 25%

**3.** 1/6; 12.5%

**4.** 1/8; 12.5%

**Correct Answer:** 4

Rationale 1:

Rationale 2:

**Rationale 3**:

Rationale 4:

**Global Rationale:** Write one hundred twenty-five thousandths as 125/1000, and then reduce the fraction to 1/8. Move the decimal two places to the right yielding 12.5%

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing decimal numbers to fraction and percents

Question 8 Type: MCSA

Write 0.2 as a fraction in lowest terms and as a percentage.

**1.** 1/50; 2%

**2.** 1/5; 20%

**3.** 2/100; 0.2%

**4.** 1/500; 0.002%

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Write 2 tenths as 2/10 and reduce to 1/5. Move the decimal point 2 places to the right yielding 20%

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing decimal numbers to fraction and percents

**Question 9 Type:** MCSA

Write 0.49 as a fraction in lowest terms and as a percentage.

**1.** 49/100; 49%

**2.** 7/15; 49%

**3.** 49/100; 4.9%

**4.** <sup>1</sup>⁄<sub>2</sub>; 4.9%

Correct Answer: 1

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** Write 0.49 as 49/100 which cannot be reduced further. Move the decimal point 2 places to the right to yield 49%

#### **Cognitive Level:**

#### Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing decimal numbers to fraction and percents

#### Question 10 Type: MCSA

Write 0.75 as a fraction in lowest terms and as a percentage.

1.75/100;75%

2. 15/20; 7.5%

3. 15/20; 75%

**4.** <sup>3</sup>⁄<sub>4</sub>; 75%

**Correct Answer:** 4

Rationale 1:

Rationale 2:

**Rationale 3**:

Rationale 4:

**Global Rationale:** Write 0.75 as 75/100 and reduce to <sup>3</sup>/<sub>4</sub>. Move the decimal point 2 places to the right to yield 75%

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing decimal numbers to fraction and percents

**Question 11 Type:** MCSA

Write 0.06 as a fraction in lowest terms and as a percentage.

1.3/50;60%

**2.** 6/10; 6%

**3.** 3/50; 6%

**4.** 3/5; 6%

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Write 0.06 as 6/100 and reduce to 3/50. Move the decimal point 2 places to the right to yield 6%.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing decimal numbers to fraction and percents

# Changing Percentages to fractions and decimal numbers

Question 12 Type: MCSA

Write 55% as a decimal number and a proper fraction in lowest terms.

**1.** 5.5; 55/100

2.0.055; 55/1000

**3.** 0.55; 11/20

**4.** 0.0055; 11/200

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal 2 places to the left or 0.55, place 55 over 100 and reduce to 11/20

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percentages to fractions and decimal numbers

**Question 13 Type:** MCSA

Write 72% as a decimal number and a proper fraction in lowest terms.

1.7.2;72/1000

**2.** 7.2; 72/100

**3.** 0.72; 36/50

**4.** 0.72; 18/25

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

Global Rationale: Move the decimal 2 places to the left or 0.72. Place 72 over 100 and reduce to 18/25

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percentages to fractions and decimal numbers

**Question 14 Type:** MCSA

Write 0.6% as a decimal number and a proper fraction in lowest terms.

**1.** 3/50; 0.06

2.6/100;0.60

**3.** 1/17; 0.06

4.3/500; 0.006

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal 2 places to the left or 0.006, place 6 over 1000 and reduce to 3/500

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percentages to fractions and decimal numbers

**Question 15 Type:** MCSA

Write 4.5% as a decimal number and a proper fraction in lowest terms.

1.0.45; 45/100

2.0.045; 9/200

**3.** 0.0045; 45/10,000

**4.** 0.045; 45/1,000

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal 2 places to the left or 0.045, place 45 over 1000 and reduce to 9/200

Cognitive Level: Client Need: Client Need Sub:

## Nursing/Integrated Concepts:

Learning Outcome: Percentages to fractions and decimal numbers

#### **Question 16**

Type: MCSA

Write 25% as a decimal number and a proper fraction in lowest terms.

**1.** 2.5; 1/40

2.0.025; 5/200

**3.** 0.25; 1/4

4. 0.25; 25/100

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal 2 places to the left or 0.25, place 25 over 100 and reduce to 1/4

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percentages to fractions and decimal numbers

Changing fractions to decimal numbers and percentages

Question 17 Type: MCSA

Write 3/5 as a decimal number and a percent.

**1.** 0.0166; 1.66%

2.0.6;60%

**3.** 0.15; 15%

**4.** 0.3; 30%

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Divide the denominator into the numerator:  $3 \div 5 = 0.6$ . Move the decimal point two places to the right yielding 60%

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing fractions to decimal numbers and percentages

**Question 18 Type:** MCSA

Convert 5/8 to a decimal number and a percent.

**1.** 1.6; 160%

2.0.4;40%

**3.** 0.625; 62.5%

**4.** 0.45; 45%

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Dividing the denominator into the numerator:  $5 \div 8 = 0.625$ . Move the decimal point two places to the right yielding 62.5%

Cognitive Level: Client Need: Client Need Sub:

## Nursing/Integrated Concepts:

Learning Outcome: Changing fractions to decimal numbers and percentages

#### **Question 19**

Type: MCSA

Convert 9/19 to a decimal number rounded off to the nearest tenth, and to a percentage rounded off to the nearest tenth of a percent.

**1.** 0.5; 47.4%

2.0.47; 4.8%

3.0.02; 2.1%

**4.** 0.4; 47.4%

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Divide the denominator into the numerator.  $9 \div 19 = 0.4736...$  rounded off to 0.5. Move the decimal point two places to the right yielding 47.4%

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing fractions to decimal numbers and percentages

**Question 20 Type:** MCSA

Write 3/5 as a decimal number and a percent.

**1.** 1.67; 167%

2.0.6;60%

**3.** 0.167; 16.7%

**4.** 0.06; 6%

**Correct Answer:** 2

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Changing fractions to decimal numbers and percentages

**Question 21 Type:** MCSA

Reduce 36/48 to lowest terms.

**1.** 12/18

**2.** 18/24

**3.** 9/12

**4.** 3/4

**Correct Answer:** 4

Rationale 1:

Rationale 2:

**Rationale 3**:

Rationale 4:

Global Rationale: Divide numerator and denominator by 12 yielding 3/4.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Reducing fractions and ratios

# **Reducing Fractions and Ratios**

Question 22

Type: MCSA

Reduce 95/100 to lowest terms.

**1.** 4/5

**2.** 19/20

**3.** 24/25

**4.** 9.5/10

**Correct Answer:** 2

Rationale 1:

Rationale 2:

**Rationale 3**:

**Rationale 4**:

Global Rationale: Divide numerator and denominator by 5 yielding 19/20.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Reducing fractions and ratios

**Question 23 Type:** MCSA

Reduce 24/36 to lowest terms.

**1.** 12/18

**2.** 3/4

**3.** 2/3

**4.** 6/9

#### **Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Divide numerator and denominator by 12 yielding 2/3.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Reducing fractions and ratios

**Question 24 Type:** MCSA

Reduce the ratio 18:54 to a fraction in lowest terms.

**1.** 18/54

**2.** 1/3

**3.** 3/4

**4.** 1/2

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Convert the ratio to 18/54 and reduce to 1/3.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Reducing fractions and ratios

#### **Question 25**

## Type: MCSA

Reduce the ratio 10:75 to a fraction in lowest terms.

**1.** 1/7.5

**2.** 5/15

**3.** 2/15

**4.** 1/3

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Convert the ratio to 10/75 and reduce to 2/15.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Reducing fractions and ratios

**Question 26 Type:** MCSA

Reduce the ration 12:24 to a fraction in lowest terms.

**1.** 1/3

**2.** 6/18

**3.** 2/4

**4.** 1/2

**Correct Answer:** 4

Rationale 1:

## **Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** Convert the ratio to 12/24 and reduce to 1/2.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Reducing fractions and ratios

## **Building Fractions**

**Question 27 Type:** MCSA

Write 5/8 as an equivalent fraction with 96 in the denominator.

**1.** 96/154

2.65/96

**3.** 60/96

**4.** 5/96

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** 5/8 x 12/12 = 60/96

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Building fractions

#### **Question 28**

## Type: MCSA

Write 4/5 as an equivalent fraction with 100 in the denominator.

**1.** 100/80

**2.** 5/100

**3.** 75/100

**4.** 80/100

**Correct Answer:** 4

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** 4/5 x 20/20 = 80/100

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Building fractions

**Question 29 Type:** MCSA

Write 17/20 as an equivalent fraction with 100 in the denominator.

1.85/100

**2.** 34/100

**3.** 4/100

**4.** 100/85

**Correct Answer:** 1

Rationale 1:

#### Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** 17/20 x 5/5 = 85/100

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Building fractions

**Question 30 Type:** MCSA

Write 1/5 as an equivalent fraction with 25 in the denominator.

1.25/5

2. 25/20

**3.** 5/25

**4.** 1/25

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

**Global Rationale:**  $1/5 \ge 5/25$ 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Building fractions

**Question 31 Type:** MCSA

Write 3/4 as an equivalent fraction with 100 in the denominator.

**1.** 75/100

**2.** 80/100

**3.** 100/ 25

**4.** 100/75

**Correct Answer:** 1

Rationale 1:

Rationale 2:

**Rationale 3**:

Rationale 4:

**Global Rationale:** <sup>3</sup>/<sub>4</sub> x 25/25 = 75/100

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Building fractions

## Rounding

Question 32 Type: MCSA

Round off 6.892489 to the hundredths place.

**1.** 6.9

**2.** 6.89

**3.** 6.8

**4.** 6.892

**Correct Answer:** 2

Rationale 1:

Rationale 2:

#### **Rationale 3**:

#### Rationale 4:

Global Rationale: The digit following the hundredths place is 2, so leave 6.89 alone

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Rounding

**Question 33 Type:** MCSA

Round off 17.456 to the tenths place.

**1.** 17.5

**2.** 17.4

**3.** 17.46

**4.** 17.56

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: The digits following the tenths place is 5 so add 1 to 4 yielding 17.5

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Rounding

Question 34 Type: MCSA

Round off 3.5243 to the tenths place.

**1.** 3.6

**2.** 3.4

**3.** 3.5

**4.** 3.52

**Correct Answer:** 3

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

Global Rationale: The digit following the tenths place is 2 so leave the 5 alone yielding 3.5

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Rounding

**Question 35 Type:** MCSA

Round down 9.6723 to the tenths place.

**1.** 9.7

**2.** 9.6

**3.** 9.67

**4.** 9.72

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: The digit in the tenths place is 6, delete the remaining digits.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Rounding

**Question 36 Type:** MCSA

Round down 4.2894 to the hundredths place.

**1.** 4.3

**2.** 4.29

**3.** 4.28

**4.** 4.2

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: The digit in the hundredths place is 8, delete the remaining digits.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Rounding

Question 37 Type: MCSA

Round down 4.0678 to the tenths place.

**1.** 4

**2.** 4.1

**3.** 4.06

**4.** 4.07

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

Global Rationale: The digit in the tenths place is 1, delete the remaining digits.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Rounding

## Adding and Subtracting Decimal Numbers

Question 38 Type: MCSA Add 4.55 and 0.035. 1. 4.9 2. 4.5035 3. 4.585 4. 4.515 Correct Answer: 3 Rationale 1: Rationale 2: Rationale 3: Rationale 4:

Global Rationale: Line up the decimal points and add.

#### **Cognitive Level:**

Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting decimal numbers

**Question 39 Type:** MCSA

Add the following decimal numbers: 10.1 + 3.964.

**1.** 14.064

**2.** 13.974

**3.** 13.064

**4.** 14.974

**Correct Answer:** 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Line up the decimal points and add.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting decimal numbers

**Question 40 Type:** MCSA

Add 4.834 + 3.962 + 1.083.

1.8.879

**2.** 9.793

**3.** 9.879

**4.** 8.793

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Line up the decimal points and add.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting decimal numbers

**Question 41 Type:** MCSA

Subtract 1.864 from 3.691.

**1.** 1.827

**2.** 1.823

**3.** 2.827

**4.** 0.827

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Line up the decimal points and subtract.

Cognitive Level: Client Need: Client Need Sub:

### Nursing/Integrated Concepts:

Learning Outcome: Adding and subtracting decimal numbers

Question 42

Type: MCSA

Subtract 0.068 from 5.543.

**1.** 4.863

**2.** 5.475

**3.** 5.863

**4.** 5.5362

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

Global Rationale: Line up the decimal points and subtract.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting decimal numbers

**Question 43 Type:** MCSA

Subtract 2.4 from 10.

**1.** 7.6

2. 12.40

**3.** 9.76

**4.** 12.4

#### **Correct Answer:** 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Line up the decimal points and subtract.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting decimal numbers

Multiply and Dividing Decimal Numbers

**Question 44 Type:** MCSA

Solve the following problem: 3.29 x 1.64. Round off the answer to the tenths place.

**1.** 5.4

**2.** 5.3

**3.** 53.4

**4.** 54.2

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: 3.29 X 1.64 = 5.3956 then round off to 5.4

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing decimals numbers

## Question 45

Type: MCSA

Multiply 2.87 by 0.064 and round off to the hundredths place.

**1.** 0.19

**2.** 0.183

**3.** 0.1837

**4.** 0.18

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** 2.87 X 0.064 = 0.18368 rounded off to the hundredth place is 0.18

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing decimals numbers

Question 46

Type: MCSA

Multiply 2.4 by 0.5.

**1.** 1.2

**2.** 12

**3.** 0.12

**4.** 120

**Correct Answer:** 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** 2.4 X 0.5 = 1.2

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing decimals numbers

Question 47

Type: MCSA

Solve the following problem:  $0.68 \div 0.4$ .

**1.** 170

**2.** 17

**3.** 1.7

**4.** 0.17

**Correct Answer:** 3

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** Move the decimal point one place to the right on each number, then divide 6.8 by 4 = 1.7

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing decimals numbers

#### **Question 48**

## Type: MCSA

Divide 8.6 by 0.5.

- **1.** 1.72
- **2.** .172
- **3.** 17.2
- **4.** 172
- **Correct Answer:** 3
- Rationale 1:
- **Rationale 2**:
- Rationale 3:
- Rationale 4:
- **Global Rationale:** Move the decimal point one place to the right on each number then divide 86 by 5 = 17.2

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing decimals numbers

**Question 49 Type:** MCSA

Divide 8.6 by 0.02.

- **1.** 0.172
- **2.** 4.3
- **3.** 430
- **4.** 0.43
- **Correct Answer:** 3
- Rationale 1:

## **Rationale 2**:

## Rationale 3:

Rationale 4:

Global Rationale: Move the decimal point two places to the right and then divide 860 by 2=430

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing decimals numbers

# Multiplying and dividing by Powers of 10

Question 50 Type: MCSA

Multiply 0.089 by 1,000.

1.89

2.8.9

**3.** 0.89

**4.** 0.089

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal point three places to the right

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing by powers 10

**Question 51 Type:** MCSA

Multiply 0.84 by 100.

- **1.** 8.4
- **2.** 84
- **3.** 840

**4.** 0.084

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal point two places to the right yielding 84.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing by powers 10

**Question 52 Type:** MCSA

Multiply 34.2 by 100.

**1.** 3.42

**2.** 342

**3.** 3,420

**4.** 34,200

**Correct Answer:** 3

Rationale 1:

## Rationale 2:

### Rationale 3:

Rationale 4:

Global Rationale: Move the decimal point two places to the right yielding 3420

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing by powers 10

**Question 53 Type:** MCSA

Divide 0.89 by 100.

**1.** 8.9

2.0.89

**3.** 0.089

4.0.0089

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Move the decimal point two places to the left yielding 0.0089

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing by powers 10

**Question 54 Type:** MCSA

Divide 1.24 by 10.

**1.** 0.0124

**2.** 0.124

**3.** 12.4

**4.** 124

**Correct Answer:** 2

Rationale 1:

Rationale 2:

**Rationale 3**:

Rationale 4:

Global Rationale: Move the decimal point one place to the left yielding 0.124

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing by powers 10

**Question 55** 

Type: MCSA

Divide 566.8 by 1,000.

1.5,668

2.56.68

**3.** 5.668

**4.** 0.5668

**Correct Answer:** 4

Rationale 1:

**Rationale 2**:

**Rationale 3**:

Rationale 4:

Global Rationale: Move the decimal point three places to the left.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing by powers 10

## Ordering Decimal Numbers

**Question 56 Type:** FIB

Write the numbers 0.289, 0.395, 0.0289, and 0.0395 in order of size from smallest to largest.

#### **Standard Text:**

Correct Answer: 0.0289; 0.0395; 0.289; 0.395

Rationale : Put in a column and line up the decimal points.

**Global Rationale:** 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Ordering decimal numbers

Question 57 Type: FIB

Write the numbers 0.003, 0.034, 0.38, and 0.0003 in order of size from smallest to largest.

**Standard Text:** 

Correct Answer: 0.0003; 0.003; 0.034; 0.38

Rationale : Place the numbers in a column and line up the decimal points.

#### **Global Rationale:**

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Ordering decimal numbers

## **Question 58 Type:** FIB

Write the numbers 0.3, 0.4, 0.33, and 0.111 in order of size from smallest to largest.

## **Standard Text:**

Correct Answer: 0.111; 0.3; 0.33; 0.4

Rationale : Place the numbers in a column and line up the decimal points.

## **Global Rationale:**

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Ordering decimal numbers

Question 59 Type: FIB

Which is larger: 0.21 or 0.7? \_\_\_\_\_

**Standard Text:** 

Correct Answer: 0.7

**Rationale** : 0.7 is larger than 0.21.

**Global Rationale:** 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Ordering decimal numbers

Question 60 Type: FIB

Which is larger: 2.45 or 2.6? \_\_\_\_\_

#### **Standard Text:**

**Rationale** : 2.6 is larger than 2.45.

### **Global Rationale:**

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Ordering decimal numbers

# Question 61

Type: FIB

Which is largest: 0.3, 0.33, or 0.198?

## **Standard Text:**

Correct Answer: 0.33

**Rationale** : 0.33 is larger than both 0.3 and 0.198.

## **Global Rationale:**

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Ordering decimal numbers

# Adding and Subtracting Fractions

**Question 62 Type:** MCSA

Add 5 7/8 and 3 1/4.

**1.** 8 3/4

**2.** 9 1/8

**3.** 9 1/4

**4.** 8 1/4

## **Correct Answer:** 2

## Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Convert both denominators to 8 then add 5 7/8 + 32/8 = 89/8 = 91/8

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting fractions

Question 63 Type: MCSA Add 6 1/2 and 2 3/8. 1. 8 7/8 2. 9 3. 8 12/16 4. 9 1/4 Correct Answer: 1 Rationale 1: Rationale 2: Rationale 3: Rationale 4:

**Global Rationale:** Convert both denominators to 8 then add  $6 \frac{4}{8} + 2 \frac{3}{8} = 8 \frac{7}{8}$ 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting fractions

**Question 64 Type:** MCSA

Add 3 3/4 and 7 1/2.

- **1.** 10 1/4
- **2.** 10 3/4
- **3.** 11 1/2

**4.** 11 1/4

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

**Global Rationale:** Convert both denominators to 4 then add:  $3\frac{3}{4} + 7\frac{2}{4} = 10\frac{5}{4}$  or  $11\frac{1}{4}$ 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting fractions

Question 65

Type: MCSA

Subtract 1 3/4 from 2 3/8.

**1.** 1 3/8

**2.** 1 5/8

**3.** 5/8

**4.** 1

**Correct Answer:** 3

Rationale 1:

**Rationale 2**:

Rationale 3:

#### Rationale 4:

**Global Rationale:** Convert both denominators to 8, then subtract 23/8 - 16/8 = 5/8

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting fractions

**Question 66 Type:** MCSA

Subtract 1<sup>1</sup>/<sub>2</sub> from 4 3/4.

**1.** 4 1/4

**2.** 3 1/2

**3.** 2 3/4

**4.** 3 1/4

**Correct Answer:** 4

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** Convert both denominators to 4, then subtract  $4\frac{3}{4} - 1\frac{2}{4} = 3\frac{1}{4}$ 

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting fractions

**Question 67 Type:** MCSA

Subtract 2 7/8 from 7 1/4.

**1.** 5 5/8

**2.** 4 5/8

**3.** 4 3/8

**4.** 5 3/8

**Correct Answer:** 3

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

Global Rationale: Convert both denominators to 8 then subtract 7 2/8 - 2 7/8

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Adding and subtracting fractions

# Multiplying and dividing fractions

**Question 68 Type:** MCSA

Solve the following problem and write the answer in lowest terms:  $16/21 \ge 7/8 \ge 1/2$ .

**1.** 112/336

**2.** 64/147

**3.** 1/3

**4.** 1 109/147

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

Global Rationale: Cancel before multiplying yielding 1/3

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing

Question 69

Type: MCSA

Solve the following problem and write the answer as a mixed number in lowest terms:  $7/8 \times 3/4 \times 3/16$ .

63/576
7/64
63/512
Correct Answer: 4
Rationale 1:
Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Multiply the numerators  $(7 \times 3 \times 3) = 63$ . Multiply the denominators (8X4X16) = 512 and place the numerator over the denominator yielding 63/512.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing

**Question 70 Type:** MCSA

Solve the following problem and write the answer in lowest terms:  $3/5 \ge 4/15 \ge 25/24$ .

**1.** 300/1,800

**2.** 30/180

**3.** 3/18

**4.** 1/6

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Cancel before multiplying yielding 1/6

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing

**Question 71 Type:** MCSA

Solve the following problem and write the answer as a mixed number in lowest terms:  $8/11 \div 4/9$ .

1.36/99

**2.** 2/11

**3.** 1 7/11

**4.** 1 28/44

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Invert the second fraction and multiply  $(8/11X \ 9/4 = 18/11)$  and change to 17/11

#### **Cognitive Level:**

Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing

**Question 72 Type:** MCSA

Solve the following problem and write the answer in lowest terms:  $3/4 \div 7/8$ .

**1.** 21/32

**2.** 24/32

**3.** 6/7

**4.** 24/28

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Invert the second fraction and multiply.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing

**Question 73 Type:** MCSA

Solve the following problem and write the answer as a whole number or fraction in the lowest terms:  $3/200 \div 11/300$ .

1.9/22

**2.** 3/7

3.33/6,000

4.900/2,200

**Correct Answer:** 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Invert the second fraction and multiply.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Multiplying and dividing

## Simplifying Complex fractions

**Question 74 Type:** MCSA

Simplify the following complex fraction: 3/4 / 7/8

**1.** 1/2

**2.** 2/3

**3.** 3/4

**4.** 6/7

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Write as a division problem:  $\frac{3}{4} \div \frac{7}{8}$  invert the second fraction and multiply:  $\frac{3}{4} \times \frac{8}{7} = \frac{6}{7}$ 

#### **Cognitive Level:**

Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Simplifying complex fractions

**Question 75 Type:** MCSA

Simplify the following complex fraction: 4/5 / 8/9

**1.** 2/35

**2.** 9/10

**3.** 36/40

**4.** 32/45

**Correct Answer:** 2

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Write as a division problem:  $4/5 \div 8/9$ , invert the second fraction and multiply.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Simplifying complex fractions

**Question 76 Type:** MCSA

Simplify the following complex fraction: 1/4 / 1/2

**1.** 1/8

**2.** 1/4

**3.** 2

**4.** 1/2

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Write as a division problem:  $1/4 \div 1/2$ , invert the second fraction and multiply.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Simplifying complex fractions

Question 77 Type: MCSA

Simplify the following complex fraction and write as a mixed number in lowest terms: 4/5 / 3/4

**1.** 1 1/15

**2.** 3/5

**3.** 16/15

**4.** 12/20

**Correct Answer:** 1

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** Write as a division problem:  $4/5 \div 3/4$ , invert the second fraction and multiply.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Simplifying complex fractions

## **Question 78 Type:** MCSA

Simplify the following complex fraction and write in lowest terms: 1/2 / 3/4

**1.** 3/8

**2.** 4/6

**3.** 2/3

**4.** 1 1/3

**Correct Answer:** 3

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

**Global Rationale:** Write as a division problem:  $1/2 \div 3/4$ , invert the second fraction and multiply.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Simplifying complex fractions

# Percent of a number

**Question 79 Type:** MCSA

What is 32% of 25?

**1.** 800

**2.** .78

**3.** 7.8

**4.** 8

## **Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Multiply 0.32 by 25 yielding 8

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of a number

Question 80

Type: MCSA

What is 20% of 19?

**1.** 38

**2.** 3.8

**3.** 98

**4.** 0.95

**Correct Answer:** 2

Rationale 1:

**Rationale 2**:

Rationale 3:

Rationale 4:

Global Rationale: Multiply 0.2 by 19 yielding 3.8

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of a number

## Question 81

## Type: MCSA

What is 80% of 110?

1.88

**2.** 1.375

**3.** 0.72

**4.** 8800

Correct Answer: 1

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Multiply 0.8 by 110 yielding 88

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of a number

**Question 82 Type:** MCSA

What is 0.87% of 30?

**1.** 26.1

**2.** 0.261

**3.** 2.9

**4.** 0.34

**Correct Answer:** 2

Rationale 1:

## **Rationale 2**:

## Rationale 3:

## Rationale 4:

Global Rationale: Multiply 0.0087 by 30 yielding 0.261

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of a number

**Question 83 Type:** MCSA

What is 20% of 50?

**1.** 0.4

**2.** 100

**3.** 10

**4.** 2.5

**Correct Answer:** 3

Rationale 1:

Rationale 2:

Rationale 3:

**Rationale 4**:

Global Rationale: Multiply 0.2 by 50 yielding 10

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of a number

## Percent of Change

Question 84 Type: FIB

The client was taking 250 mg of ampicillin every six hours. The doctor increased the dosage to 400 mg every six hours. What percentage of change was made in the dosage? \_\_\_\_\_

## **Standard Text:**

Correct Answer: 60 %

**Rationale** : Fraction of change = change in dose/old dose = 150/250 = .6, or 60% increase in dosage.

## **Global Rationale:**

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of change

Question 85 Type: MCSA

The client's dosage of Lanoxin (digoxin) was changed from 0.125 mg to 0.5 mg. What percentage was the dosage increased?

1.0.25 %

**2.** 40%

**3.** 400%

**4.** 300%

**Correct Answer:** 4

Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

**Global Rationale:** Fraction of change = change in dose/old dose = 0.375/0.125 = 3 Or 300% increase in dosage.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of change

## **Question 86 Type:** MCSA

A dosage is changed from 4 mg per day to 6 mg per day. Find the percentage of increase.

**1.** 150%

**2.** 67%

**3.** 50%

**4.** 33%

**Correct Answer:** 3

Rationale 1:

**Rationale 2**:

Rationale 3:

**Rationale 4**:

**Global Rationale:** Fraction of change = change in dose/old dose = 2/4 = .5 or 50% increase in dosage.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of change

**Question 87 Type:** MCSA

The old price was \$19.95. The sale price is \$11.97. What is the percentage discount?

1.20%

**2.** 40%

**3.** 60%

**4.** 80%

**Correct Answer:** 2

#### Rationale 1:

Rationale 2:

Rationale 3:

Rationale 4:

Global Rationale: Fraction of discount = Change in price/old price = 7.98/19.95=0.4 or 40%

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of change

**Question 88 Type:** MCSA

The client's dosage of Tenormin (atenolol) is reduced from 75 mg to 60 mg. What is the percentage decrease?

| 1. 67%  |
|---|
| <b>2.</b> 15%   |
| <b>3.</b> 150%  |
| <b>4.</b> 20%   |
| Correct Answer: 4   |
| Rationale 1:  |
| Rationale 2:  |
| Rationale 3:  |
| Rationale 4:  |
| <b>Global Rationale:</b> Fraction of change = change in dose/old dose = $15/75 = .2$ or 20% decrease in dosage. |
|   |

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of change

Question 89 Type: MCSA

#### Medical Dosage Calculations 10th Edition Olsen Test Bank

Full Download: https://alibabadownload.com/product/medical-dosage-calculations-10th-edition-olsen-test-bank/ A dosage is changed from 12 mg per day to 9 mg per day. What is the percentage decrease?

- 1.25%
- **2.** 13%
- **3.** 75%
- **4.** 33%
- **Correct Answer:** 1
- Rationale 1:
- Rationale 2:
- Rationale 3:
- Rationale 4:

**Global Rationale:** Fraction of change = change in dose/old dose = 3/12 = .25 or 25% decrease in dosage.

Cognitive Level: Client Need: Client Need Sub: Nursing/Integrated Concepts: Learning Outcome: Percent of change

Olsen, Giangrasso, Shrimpton, *Medical Dosage Calculations* 10<sup>th</sup> Edition Copyright 2012 by Pearson Education, Inc.

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